



## DCC Operation

- Supports all DCC-programming modes
- Follows all NMRA DCC standards and recommended practices.
- Flexible mapping of function keys F0 to F28.
- A total of six DCC function outputs are available

## Analog (DC)Operation

- The LokSound Select Dual-Mode decoder allows your Atlas Gold Series locomotive to be used on DC as well as on DCC layouts. The motor and the synchronization of all sound and light functions are also controlled in analog mode by the decoder. Hence, model railroaders without DCC can still enjoy the basic sounds and superior motor control of the locomotive
- ***Please note that the Atlas Quantum Engineer will NOT operate an Atlas Gold Series locomotive equipped with a LokSound Select decoder on an analog (DC) layout.*** However, the sound and lighting functions of the LokSound Select decoder in the locomotive can be controlled by an easy-to-use basic DCC system
- Also note that on a DC-powered layout, a DCC and sound equipped locomotive (such as the Atlas Gold Series RS-3) **CANNOT** be consisted with another locomotive that does not also have both DCC and sound. (This statement does NOT apply to DCC-equipped locomotives operating on a DCC layout.)

## Sound Functionality

- The LokSound Select decoder has a 32 Mbit memory chip. The sounds are transferred to the audio amplifier in the decoder via eight polyphonic sound channels.
- The sounds for each locomotive are newly recorded with the latest audio equipment. As many as six microphones are used simultaneously. The original recordings have been digitally re-mastered for the best possible audio quality.
- Over 20 sound effects are available, including engine start-up and shutdown, prime mover sounds through all eight notches, bell, air horn, air compressor, dynamic brakes, fans, brake squeals, coupling and uncoupling sounds, detector sounds, rail clank sounds, and more.
- There are 16 user-selectable horns, 2 user-selectable bells, and 2 user-selectable synchronized brake squeals.

- Manual and Automatic Notching modes with the ability to change modes "on the fly" are provided for true realism.
- Both Master Sound volume controls and Individual Sound volume controls are available.
- An EASILY-playable horn is provided.

### **Customize Your Locomotive**

- LokSound Select offers you two options to customize the sounds in your locomotive.
  - You can select the prime mover sound, the desired whistle or horn, the bell and the brake squeal all by using one (!) CV.
  - You can download new sounds using the LokProgrammer (sold separately).
- You can also download new operational software using the LokProgrammer.

### **Superior Motor Control**

- The LokSound Select offers 5th generation motor control, resulting in smooth and precise locomotive operation. Atlas and ESU firmly believe that good motor control is essential for model trains. Even the best sound is worthless if the locomotive is not running smoothly.
- Some of the techniques used include:
  - Load compensation (using Back-EMF),
  - Dynamic Drive Control (DDC),
  - A built-in auto-detection function measures the motor characteristics and adjusts the internal settings for best performance.